

Math 116: Worksheet 7

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1. Compute $E_K(X_i)$
 $O_i = L_k(E_K(X_i))$
 $P_i = O_i \oplus C_i$
 $X_{i+1} = R_{b-k}(X_i) \parallel C_i$
We also need to know X_1 and K
2. Compute $E_K(X_i)$
 $O_i = L_k(E_K(X_i))$
 $P_i = O_i \oplus C_i$
 $X_{i+1} = R_{b-k}(X_i) \parallel O_i$
We also need to know X_1 and K
3. We don't use a decryption function. The encryption function doesn't need to be invertible.
4. (a) OFB
(b)